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APPLICATION NO). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,680 07/15/2003		07/15/2003	Leonardus Grassens	LSI.75US01 (03-0977)	9639
24319	7590	09/21/2006	•	EXAMINER	
LSI LOG	IC CORPO	ORATION	INGBERG, TODD D		
1621 BAR	BER LANE	3			
MS: D-100	5			ART UNIT	PAPER NUMBER
MILPITAS, CA 95035				2193	

DATE MAILED: 09/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		
	Application No.	Applicant(s)
Office Action Summer.	10/620,680	GRASSENS, LEONARDUS
Office Action Summary	Examiner	Art Unit
	Todd Ingberg	2193
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period vortice and the period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 15 Ju 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 7/15/2003 is/are: a) ☐ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine	wn from consideration. r election requirement. r. accepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate

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DETAILED ACTION

Claims 1 - 16 have been examined.

Drawings

1. The formal drawings filed July 15, 2003 have been accepted.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3–9 and 11 - 16 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN # 6,964,036 Bates et al.

Claim 1

Bates anticipates a computerized method for adding debugging statements to a computer source code having a plurality of lines of code (Bates, Abstract and Figure 7) comprising: creating an annotated source code (Bates, Abstract and figure 5A); setting a verbosity level to a predetermined level (Bates, Figure 4B #424, present OR not present); traversing through said computer source code by reading and analyzing a portion of said source code at a time, said reading and analyzing comprising: reading said portion of said source code (Bates, Figure 5A, reading and processing code), said portion comprising executable statements and comments (as per above); and if said portion comprises an executable statement, writing said executable statement to said annotated source code (As per above), constructing an output statement comprising at least an indicator of the location of said executable statement within said source code (Bates, Figure 7, shows line number), and writing said output statement to said annotated source code (Bates, Figure 5A – Shows the outputs); and causing said annotated source code to be executed in place of said computer source code (Bates, figure 7, running the debugger).

Claim 3

The method of claim 1 wherein said computer source code is used with a compiler. (Bates, col 6, lines 24-37, compiler)

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Claim 4

The method of claim 1 wherein said computer source code is used with an interpreter. (Bates, col 6, lines 38-47, interpreter)

Claim 5

The method of claim 1 wherein said output statement further comprises at least a portion of said executable statement. As per claim 1.

Claim 6

The method of claim 1 wherein said output statement further comprises at least one variable name and at least one variable value. (Bates, Abstract).

Claim 7

The method of claim 1 wherein said output statement further comprises a function name. (Bates, Figure 7, ".moreStuff")

Claim 8

The method of claim 1 wherein said traversing further comprises: if said portion comprises a comment, analyzing said comment to determine that said comment contains an embedded verbosity level statement and setting said verbosity level to the verbosity level defined in said embedded verbosity level statement. as per claim 1.

Claim 9

A computer program for adding debugging statements to a computer source code having a plurality of lines of code comprising: a first routine for creating an annotated source code; a second routine capable of setting a verbosity level to a predetermined level; a third routine for traversing through said computer source code by reading and analyzing a portion of said source code at a time, said reading and analyzing comprising: reading said portion of said source code, said portion comprising executable statements and comments; and if said portion comprises an executable statement, writing said executable statement to said annotated source code, constructing an output statement comprising at least an indicator of the location of said executable statement within said source code, and writing said output statement to said annotated source code; and wherein said annotated source code may be executed in place of said computer source code. As per the rejection for claim 1.

Claim 11

The computer program of claim 9 wherein said computer source code is used with a compiler. As per the rejection for claim 3.

Claim 12

The computer program of claim 9 wherein said computer source code is used with an interpreter. As per the rejection for claim 4.

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Claim 13

The computer program of claim 9 wherein said output statement further comprises at least a portion of said executable statement. As per the rejection for claim 5.

Claim 14

The computer program of claim 9 wherein said output statement further comprises at least one variable name and at least one variable value. As per the rejection for claim 6.

Claim 15

The computer program of claim 9 wherein said output statement further comprises a function name. As per the rejection for claim 7.

Claim 16

The computer program of claim 9 wherein said traversing further comprises: if said portion comprises a comment, analyzing said comment to determine that said comment contains an embedded verbosity level statement and setting said verbosity level to the verbosity level defined in said embedded verbosity level statement. As per the rejection for claim 8.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bates in view of "How Debuggers **Work**" by J.B. Rosenberg 1996.

Rejection for claims 2 and 10

Bates teaches displaying the line number in the display (Bates, Figure 7 shows the line number in the display). Although, the file being debugged is often displayed on the screen the portions of Bates displays do not explicitly show the file name. Work teaches the common feature of displaying the filename (Work, page 25, calc.cpp). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to display the file being debugged because identifying the file enables programmers to know what file to alter.

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Claim 2

The method of claim 1 wherein said indicator of the location of said executable statement comprises: a file name of said source code; and a line number of said portion of said source code.

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Claim 10

The computer program of claim 9 wherein said indicator of the location of said executable statement comprises: a file name of said source code; and a line number of said portion of said

source code. As per the rejection for claim 2.

examiner can normally be reached on during the work week...

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd Ingberg whose telephone number is (571) 272-3723. The

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or \$71-272-1000.

Todd Ingoerg Primary Examiner Art Unit 2193